

MKD-RT Series

On-line double conversion
1000, 1500, 2000, 3000VA
Racktower-Design

NEU / NEW

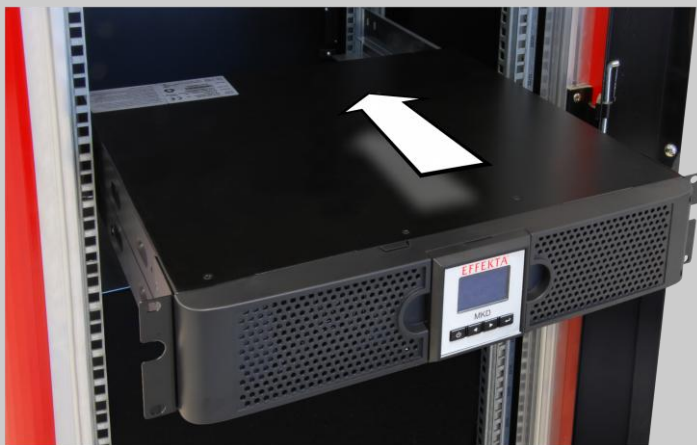
New design
Additional models

Right: The feet supplied to make the
MKD-RT stable tower unit.

Description

The MKD-RT is now available as a complete series in new design. It's EFFEKTA®'s high-end model in the field of high-quality microprocessor-based on-line double conversion UPS's for your IT environment or metrology and industrial plants.

The MKD-RT is already equipped with extensive and specific features, which are usually provided in the UPS market by most expensive special UPSs. The programmable switch contacts, or the adjustable restart function are just two of countless examples.

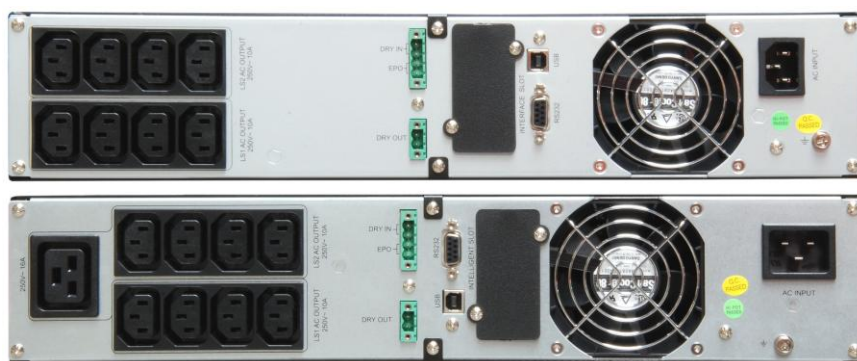


The MKD-RT can be used as 19" rack mount 2U device in any standard 19" rack after attaching the included 19" mounting angles. To make this possible, the clear LCD display can be rotated by 90°.



Properties

- UPS Classification VFI-SS-111 (IEC 62040-3)
- Can be used as tower as well as 19"-unit
- User-friendly swivel LCD display
- Wide input voltage range (120-276VAC)
- Excellent power factor of 0.9
- Online double conversion with sinusoidal output switchable to ECO mode (line interactive)
- Microprocessor controlled
- Automatic frequency detection
- Output frequency preset (frequency converter function)
- Extensive communication & control:
 - RS-232 as standard
 - USB as standard
 - Programmable switch contacts as standard
 - Emergency power-off „EPO“ as standard
- Slot for another optional adapter: Relay board or SNMP
- Management software for all popular OS
- 24 months' warranty



Top left: MKD 1000-2000 RT rear view

Bottom left: MKD 3000 RT rear view

With existing standard RS232 and USB interface as well as standard emergency contact (EPO) and individually programmable dry contacts (DRY IN / OUT DRY) the MKD-RT provides extraordinarily extensive communication and control. And yet even this can be extended by additional optional adapter slot (SNMP, relay card).

Specifications

Model		MKD 1000 RT	MKD 1500 RT	MKD 2000 RT	MKD 3000 RT
Power	Power(VA) max	1000	1500	2000	3000
	Power(W) max	900	1350	1800	2700
Back-up time	@ 100% load	app. 5min.	app. 4min.	app. 4min.	app. 4min.
	@ 50% load	app. 15min.	app. 13min.	app. 10min.	app. 10min.
Input	Cold Start	yes, default frequency=50Hz			
	Acceptable Input Voltage	120VAC-276VAC			
	Adjustable Bypass Voltage	120VAC-276VAC			
	Phase	Single phase with ground			
	THDi	<5% with full load			
	Input Power Factor	≥0.99(FULL RCD LOAD)			
	Input Frequency Range	45-55Hz / 54-66Hz			
Output	Output Voltage	Waveform	Pure sine wave		
		Nominal voltage	208VAC/220VAC/230VAC/240VAC ±1%		
		Transient recovery	100ms (IEC 62040-3 Non-linear load)		
		Voltage distortion	<2% THD, linear load / <5% THD, non-linear load		
	Output Frequency	Synchronization range	45-55Hz / 54-66Hz (Adjustable)		
		Battery mode	50/60±0.2Hz		
	Power Factor		0.9		
	Transfer Time	Line to battery mode	0ms		
		Inverter to bypass	4ms @ ECO mode		
		ECO to Inverter mode	<10ms		
	Full Load Efficiency	Line mode	> 89% with battery fully charged		
		Battery mode	> 84% @ 12VDC / battery		
		ECO mode	> 95%		
Battery	Overload Capability (Line Mode)		102% ~ 130% : 12s / 130% ~ 150% : 1.5s / > 150% : 100ms		
	Overload Capability (Battery Mode)		102% ~ 130% : 12s / 130% ~ 150% : 1.5s / > 150% : 100ms		
	Battery type		12VDC / 7Ah (Sealed maintenance free lead acid batteries)	12VDC / 9Ah (Sealed maintenance free lead acid batteries)	
	Quantity		3	4	6
	DC Voltage		36VDC	48VDC	72VDC
	Charging time		< 3h charge to 90%		
Communication	Charging current (max)		1.5A	1.5A	1.5A
	Integrated		RS232, USB, Dry Contacts, EPO		
Indicator & Alarm	Optional cards		Intelligent Slot for AS 400, SNMP, Opto-coupler		
	Display		YES / LCD		
Mechanical	Acoustic		YES		
	Casing		steel-tower / front plastic		
	Protection class		IP 20		
	Dimensions (HxWxD in mm)		86.5 (2U) x 438 (19") x 435		86.5 (2U) x 438 (19") x 604
	Weight		13.2kg	19.7kg	27.8kg
	Operating Temperature Range		0°C ~ 40°C		
	Humidity		0~95% (No condensing)		
	Audible Noise		App. 52dB @ 1meter		
Regulations / standards	Safety		EN 62040-1		
	EMC		EN 62040-2 Class C1		
	Certifications		CE		